

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2004/000351

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. <sup>7</sup>: C12Q 1/00, 1/18, 1/26, 1/54, G01N 33/543, 27/26

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

SEE ELECTRONIC DATABASE BELOW

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

STN, WPAT &amp; JAPIO (Search terms: redox polymer, acrylic, oxide, enzyme)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	XIE et al., "Amperometric Detection of Nucleic Acid at Femtomolar Levels with a Nucleic Acid/Electrochemical Activator Bilayer on Gold electrode", <i>Analytical Chemistry</i> , Vol. 76, No. 6 (March 2004) pages 1611-1617. See whole document	1-25
P,X	ZHANG et al., "Multilayered construction of glucose oxidase and poly(allylamine)ferrocene on gold electrodes by means of layer-by-layer covalent attachment", <i>Sensors and Actuators B</i> 101 (2004) pages 387-393. See Scheme 1 on page 389	1-25
X	BU et al., "Modification of Ferrocene-containing Redox Gel Sensor Performance by Copolymerisation of Charged Monomers", <i>Analytical Chemistry</i> , Vol. 68, No. 22 (1996) pages 3951-3957. See whole document	26-45
X	BU et al., "NAD(P)H Sensors Based on Enzyme Entrapment in Ferrocene-containing Polyacrylamide-based Redox Gels", <i>Analytical Chemistry</i> , Vol. 70, No. 20 (1998) pages 4320-4325. See whole document	26-45

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
24 November 2004

Date of mailing of the international search report

- 1 DEC 2004

Name and mailing address of the ISA/AU

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 341 881 A (KRACKLAUER et al.) 27 July 1982 See column 2 lines 54-55 and claim 8.	26-32
A	US 6 479 240 A (KAYYEM et al.) 12 November 2002 See whole document	1, 26
A	US 6 264 825 A (BLACKBURN et al.) 24 July 2001 See whole document	1, 26
A	US 6 232 062 A (KAYYEM et al.) 15 May 2001 See whole document	1, 26
A	US 6 221 583 A (KAYYEM et al.) 24 April 2001 See whole document	1, 26
A	US 6 214 205 A (WILLNER et al.) 10 April 2001 See whole document	1, 26

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG2004/000351

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US	4341881	CA	1101582		
US	6479240	AU	41834/99	AU	51967/98
		CA	2331739	CA	2449130
		EP	1078289	GB	2397647
		US	6090933	US	6096273
		US	6232062	US	6317555
		US	2002009252	US	2002009279
		US	2003148328	US	2003150723
		WO	9957589	WO	02097388
US	6264825	AU	47099/99	CA	2330182
		US	6290839	US	6761816
		AU	41834/99	AU	51967/98
		CA	2331739	CA	2449130
		EP	1078289	GB	2397647
		US	6090933	US	6096273
		US	6232062	US	6317555
		US	6495323	US	2002009252
		US	2003003473	US	2003148328
		WO	9820162	WO	9957589
US	6214205	AU	12071/97	CA	2244214
		IL	116921	NZ	324815
				EP	0876602
				WO	9727474
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					

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